International Journal of Fracture

CONTENTS OF VOLUME 62 (1993)

Vol. 62, No. 1, 1 July 1993

Welded joints with non-matching weld metal-crack driving force considerations on the basis of the Engineering Treatment Model (ETM)	K.-H. SCHWALBE	1
Two-dimensional line defects in anisotropic elastic solids	H. FAN and L.M. KEER	25
The behaviour of cracks in elastic–plastic materials under plane normal and shear loadings	P. PAWLISKA, H.A. RICHARD and P. DIEKMANN	43
Finite element analysis of axial splits in composite Iosipescu specimens	N. SUKUMAR and M. KUMOSA	55
Nonlocal elastic damage near crack tip	S. XIA, S. TAKEZONO and K. TAO	87

Vol. 62, No. 2, 15 July 1993

Basic singular thermoelastic solutions for a crack	X. ZHANG and N. HASEBE	97
Tilting cracks: the evolution of fracture surface topology in brittle solids	D. HULL	119
A technique for experimental evaluation of mixed mode stress intensity factors	P.M. MacKENZIE, C.A. WALKER and R. GIANNETTONI	139
Effective stiffness of a periodically cracked 3-D solid	N. FARES	149
Stress intensity factor calculation for a modified round bend bar by 3-D finite element analysis	K. CHO, B.F. HANTZ, IV and I. BAR-ON	163
On the relevance of linear elastic fracture mechanics to ice	K. ABDEL-TAWAB and G.J. RODIN	171

Vol. 62, No. 3, 1 August 1993

Stress intensity factors for an interface crack in a periodic two-layered composite under the action of heat sources	A. KACZYŃSKI	183
Analysis of an internal crack in a finite anisotropic plate	C.W. WOO and Y.H. WANG	203
Near tip stress and strain fields for short elastic cracks	G.A. KARDOMATEAS, R.L. CARLSON, A.H. SOEDIONO and D.P. SCHRAGE	219
A load-cycling technique for *R*-curve behaviour: application to a low cement refractory	G.B. PALMER and G. BAKER	233
A numerical and experimental study on defect assessment of plain and welded bars with shallow crack geometries	M.M.K. LEE, A.R. LUXMOORE and J.D.G. SUMPTER	245
Asymptotic solution of mode-III crack in damaged softening materials	X.T. ZHANG, K.C. HWANG and T.H. HAO	269

Vol. 62, No. 4, 15 August 1993

On the three-dimensional interface crack problems in periodic two-layered composites	A. KACZYŃSKI	283
Asymptotic solution for long cracks emanated from a pore in compression	A.V. DYSKIN, L.N. GERMANOVICH and K.B. USTINOV	307
A superelement for two-dimensional singular boundary value problems in linear elasticity	Z. YOSIBASH and B. SCHIFF	325
An arbitrarily oriented, rigid, elliptic inclusion in a finite anisotropic medium	E. MADENCI and L. ILERI	341
R-curve modeling of rate and size effects in quasibrittle fracture	Z.P. BAŽANT and M. JIRÁSEK	355
Author index (Vol. 62)		375